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Group: 1635

Att'y Docket No.: 16542.16.1a.3

Applicant: Serial No.:

Devin Leake 10/551,350

Filing Date:

October 19, 2006

Confirmation No.:

3238

For:

Modified Polynucleotides for Use in RNA Interference

INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANT

U.S. Patent Documents

| Examiner <u>Initial*</u> | Patent Number | Issue <u>Date</u> | Name |
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| A1. | 6924109 | 08/02/2005 | Melcher |
| A2. | 6902883 | 06/07/2005 | Dunlay |
| A3. | 6875578 | 04/05/2005 | Giuliano |
| A4. | 6759206 | 07/06/2004 | Rubin |
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| A10. | 6590093 | 07/08/2003 | Scaringe |
| A11. | 6573039 | 06/03/2003 | Dunlay |
| A12. | 6544790 | 04/08/2003 | Sabatini |

Examiner:

/Amy Bowman/

Date Considered:

06/21/2010

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| A13. | 6514464 | 02/04/2003 | Knebel |
| A14. | 6416959 | 07/09/2002 | Giuliano |
| A15. | 5399663 | 06/04/2002 | Haces |
| A16. | 6331441 | 12/18/2001 | Balch |
| A17. | 6111086 | 08/29/2000 | Scaringe |
| A18. | 6110916 | 08/29/2000 | Dunlay |
| A19. | 6008400 | 12/28/1999 | Scaringe |
| A20. | 6989835 | 11/23/1999 | Dunlay |
| A21. | 5889136 | 03/30/1999 | Scaringe |
| A22. | 5834439 | 11/10/1998 | Haces |
| A23. | 5811274 | 09/22/1998 | Palsson |
| A24. | 5674908 | 10/07/1997 | Haces |
| A25. | 5674108 | 10/07/1997 | Rolle |
| A26. | 5487872 | 01/30/1996 | Hafeman |
| A27. | 5457527 | 10/10/1995 | Manns |
| A28. | 6951757 | 10/04/2005 | Sabatini |
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|------|--|------------|----------------|
| A29. | 5998203 | 12/07/1999 | Matulic-adamic |
| A30. | 5591721 | 01/07/1999 | Agrawal |
| A31. | 5658731 | 08/19/1997 | Sproat |
| A32. | 5830653 | 11/03/1998 | Froehler |
| A33. | 5859221 | 01/12/1999 | Cook |
| A34. | 5872232 | 02/16/1999 | Cook |
| A35. | 5899136 | 03/30/1999 | Scaringe |
| A36. | 5898031 | 04/27/1999 | Crooke |
| A37. | 5856455 | 01/05/1999 | Cook |
| A38. | 6998206 | 12/07/1999 | Cpwsert |
| A39. | 6005087 | 12/21/1999 | Cook |
| A40. | 6116197 | 12/26/2000 | Cook |
| A41. | 6204027 | 03/20/2001 | Goodchild |
| A42. | 6277967 | 08/21/2001 | Manoharan |
| A43. | 6242589 | 06/15/2001 | Cook |
| A44. | 6391636 | 05/21/2002 | Monia |
| | | | |

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| A4 | 15. | 6399297 | 06/04/2002 | Baker |
|----|-----------------|---------|------------|-----------|
| A4 | 16. | 6420546 | 07/16/2002 | Seliger |
| A | 1 7. | 6451991 | 09/17/2002 | Martin |
| A | 18 . | 6458940 | 10/01/2002 | Roberts |
| A | 1 9. | 6485974 | 11/26/2002 | Papoff |
| A5 | 50. | 6531584 | 03/11/2003 | Cook |
| A5 | 51. | 6608035 | 08/19/2003 | Agrawal |
| A5 | 52. | 6645943 | 11/11/2003 | Agrawal |
| A. | 53. | 6653458 | 11/25/2003 | Manoharan |
| A. | 54. | 6673611 | 01/06/2004 | Thompson |
| A. | 55. | 6809193 | 10/26/2004 | McKay |
| A. | 56. | 6683167 | 01/27/2004 | Metelev |
| A. | 57. | 6936467 | 08/30/2005 | Kmiec |
| A: | 58. | 7173014 | 02/06/2007 | Agrawal |
| A: | 59. | 7045609 | 05/16/2006 | Metelev |
| A | 60. | 7078196 | 07/18/2006 | Tuschl |
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| # 1 · · · · · · · · · · · · · · · · · · | <u> </u> | | |
|---|------------|------------|------------|
| A61 | . 6600032 | 07/29/2003 | Manoharan |
| A62 | 6043352 | 03/28/2000 | Manoharan |
| A63 | 6841542 | 01/11/2005 | Bartlemez |
| A64 | 4984624 | 05/15/1990 | Suhadolnik |
| A65 | 5. 5023243 | 06/11/1991 | Tullis |
| A66 | 5. 5138045 | 04/11/1992 | Cook |
| A67 | 7. 5151510 | 09/29/1994 | Stec |
| A68 | 3. 5214136 | 05/25/1993 | Lin |
| A69 | o. 5264562 | 11/23/1993 | Matteucci |
| A70 | 5264564 | 11/23/1993 | Matteucci |
| A71 | . 5286717 | 02/15/1994 | Cohen |
| A72 | 2. 5399676 | 03/21/1995 | Froehler |
| A73 | 3. 5414077 | 05/09/1995 | Lin |
| A74 | 1. 5434257 | 07/18/1995 | Matteucci |
| A75 | 5. 5457191 | 01/10/1995 | Cook |
| A76 | 5. 5459255 | 10/17/1995 | Cook |
| | | | |

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|---------------|--------|--|------------|-------------|
| | _ A77. | 5484908 | 01/16/1996 | Swaminathan |
| <u> </u> | _A78. | 5489677 | 02/06/1196 | Sangvhi |
| . ——— | _ A79. | 5502177 | 03/26/1996 | Matteucci |
| | _A80. | 5514786 | 05/07/1996 | Cook |
| | _A81. | 5532130 | 07/02/1996 | Alul |
| | _ A82. | 5578718 | 11/26/1996 | Cook |
| | _A83. | 5580767 | 07/01/1997 | Cowsert |
| | _ A84. | 5587361 | 12/24/1996 | Cook |
| 11 | _A85. | 5587469 | 12/24/1996 | Cook |
| | _ A86. | 5587470 | 12/24/1996 | Cook |
| | _ A87. | 5594121 | 01/14/1997 | Froehler |
| | _ A88. | 5596086 | 01/21/1997 | Matteucci |
| | _ A89. | 5608046 | 03/04/1997 | Cook |
| - | _ A90. | 5610289 | 03/11/1997 | Cook |
| | _A91. | 5614617 | 03/25/1997 | Cook |
| | _ A92. | 5635488 | 06/03/1997 | Cook |
| | | | | |

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|----------------|-------|--|------------|--|
| | A93. | 5637573 | 06/10/1997 | Agrawal |
| | A94. | 5644048 | 07/01/1997 | Yau |
| - : | A95. | 5645985 | 07/08/1997 | Froehler |
| | A96. | 5652355 | 07/29/1997 | Froehler |
| | A97. | 5652356 | 07/29/1997 | Agrawal |
| | A98. | 5670633 | 09/23/1997 | Cook |
| <u> </u> | A99. | 5677437 | 10/14/1997 | Teng |
| | A100. | 5681941 | 10/28/1997 | Cook |
| | A101. | 5708161 | 01/13/1997 | Reese |
| | A102. | 5734041 | 03/31/1998 | Just |
| | A103. | 5750666 | 05/12/1998 | Caruthers |
| | A104. | 5756710 | 05/26/1998 | Stein |
| | A105. | 5757710 | 05/26/1998 | Li-Chun |
| | A106. | 5763588 | 06/09/1998 | Metteucci |
| | A107. | 5767264 | 06/16/1998 | Otlvos |
| <u> </u> | A108. | 5770713 | 06/23/1998 | Imbach |
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|---------------------------------------|------|---------|---------------|-------------|
| A1 | 09. | 5773601 | 06/30/1998 | Agrawal |
| A1 | 10. | 6777092 | 07/07/1998 | Cook |
| A1 | 11. | 5792844 | 08/11/1998 | Sangvhi |
| A1 | 12. | 5792847 | 08/11/1998 | Bhur |
| A1 | 13. | 5811534 | 09/22/1998 | Cook |
| A1 | 14. | 5817781 | 10/06/1998 | Swaminathan |
| A1 | 15. | 5834607 | 11/10/1998 | Manoharan |
| A1 | 16. | 5849902 | 12/15/1998 | Arrow |
| A1 | 17. | 5852182 | 12/28/1998 | Cook |
| A1 | 18. | 5852188 | 12/22/1998 | Cook |
| A1 | 19. | 5883237 | 03/16/1999 | Stec |
| A1 | 120. | 5899136 | 03/30/1999 | Scaringe |
| A1 | 121. | 5912339 | 06/15/1999 | Miller |
| A1 | 122. | 5914396 | 06/22/1999 | Cook |
| A1 | 123. | 5919619 | 07/06/1999 | Tullis |
| A1 | 124. | 5948903 | 09/07/1999 | Cook |
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|----|-----|---------|--|-----------|
| A1 | 25. | 5965722 | 10/12/1999 | Ecker |
| A1 | 26. | 5973136 | 10/26/1999 | Agrawal |
| A1 | 27. | 5989912 | 11/23/1999 | Arrow |
| A1 | 28. | 5998206 | 12/07/1999 | Cowsert |
| A1 | 29. | 6005094 | 12/21/1999 | Simon |
| A1 | 30. | 6005096 | 12/21/1999 | Matteucci |
| A1 | 31. | 6007992 | 12/28/1999 | Lin |
| A1 | 32. | 6028183 | 02/22/2000 | Lin |
| A1 | 33. | 6060592 | 05/09/2000 | Acevedo |
| A1 | 34. | 6111085 | 08/29/2000 | Cook |
| A1 | 35. | 6114513 | 09/05/2000 | Cook |
| A1 | 36. | 6127533 | 10/03/2000 | Cook |
| A1 | 37. | 6140482 | 10/31/2000 | Lyer |
| A1 | 38. | 6143881 | 11/07/2000 | Metelev |
| A1 | 39. | 6147200 | 11/14/2000 | Manoharan |
| A1 | 40. | 6153737 | 11/28/2000 | Manoharan |
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|-------|--|------------|--|
| A141. | 6166188 | 12/26/2000 | Cook |
| A142. | 6166197 | 12/26/2000 | Cook |
| A143. | 6172209 | 01/09/2001 | Manoharan |
| A144. | 6197944 | 03/06/2001 | Walder |
| A145. | 6222025 | 04/24/2001 | Cook |
| A146. | 6235886 | 05/22/2001 | Manoharan |
| A147. | 6239265 | 05/29/2001 | Cook |
| A148. | 6242591 | 06/05/2001 | Cole |
| A149. | 6265558 | 06/24/2001 | Cook |
| A150. | 6271358 | 08/07/2001 | Manoharan |
| A151. | 6277892 | 08/21/2001 | Fraser |
| A152. | 6300319 | 10/09/2001 | Manohäran |
| A153. | 6307040 | 10/23/2001 | Cook |
| A154. | 6322987 | 11/27/2001 | Cook |
| A155. | 6326358 | 12/04/2001 | Manoharan |
| A156. | 6335437 | 01/01/2002 | Manoharan |
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|-----|-------------|--|-------------|
| A15 | 7. 634614 | 02/12/2002 | Metelev |
| A15 | 8. 6348312 | 02/19/2002 | Peyman |
| A15 | 9. 6358931 | 03/19/2002 | Cook |
| A16 | 0, 6359124 | 03/19/2002 | Ecker |
| A16 | 1. 6369209 | 04/09/2002 | Manoharan |
| A16 | 2. 6369040 | 04/09/2002 | Acevedo |
| A16 | 3. 6380368 | 04/30/2002 | Froehler |
| A16 | 64. 6395492 | 06/04/2002 | Manoharan |
| A16 | 55. 6403781 | 06/11/2002 | Cole |
| A16 | 66. 6410702 | 06/25/2002 | Swaminathan |
| A16 | 67. 6414127 | 07/02/2002 | Lin |
| A16 | 68. 6440943 | 08/27/2002 | Cook |
| A16 | 69. 6447998 | 09/10/2002 | Froehler |
| A17 | 70. 6476205 | 11/05/2002 | Bhur |
| A17 | 71. 6495672 | 12/17/2002 | Froehler |
| A17 | 72. 6525031 | 02/25/2003 | Manoharan |
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| A173. | 6534639 | 03/18/2003 | Manoharan |
| A174. | 6476752 | 06/10/2003 | Manoharan |
| A175. | 6624293 | 09/23/2003 | Agrawal |
| A176. | 6677445 | 01/13/2004 | Innis |
| A177. | 6811975 | 11/02/2004 | Cook |
| A178. | 6846921 | 01/25/2005 | Innis |
| A179. | 6673611 | 01/06/2004 | Thompson |
| A180. | 6977245 | 12/20/2005 | Klinman |
| A181. | 6958239 | 10/25/2005 | Arrow |
| A182. | 7067497 | 06/27/2006 | Hanecak |
| A183. | 6881831 | 04/19/2005 | Lyer |
| A184. | 5777092 | 11/06/2003 | Morrissey |
| A185. | 6005096 | 12/21/1999 | Matteucci |
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| A187. | 20040266707 | 12/30/2004 | Leake |
|-------|-------------|------------|-----------|
| A188. | 20030203486 | 10/30/2003 | Sabatini |
| A189. | 20030228601 | 12/11/2003 | Sabatini |
| A190. | 20030170642 | 09/11/2003 | Caldwell |
| A191. | 20020006664 | 01/17/2002 | Sabatini |
| A192. | 20030170891 | 09/11/2003 | McSwiggen |
| A193. | 20040019008 | 01/29/2004 | Lewis |
| A194. | 20040009938 | 01/15/2004 | Manoharan |
| A195. | 20050020525 | 01/27/2005 | McSwiggen |
| A196. | 20040014956 | 01/22/2004 | Woolf |
| A197. | 20040096880 | 05/20/2004 | Kmiec |
| A198. | 20040147022 | 07/29/2004 | Baker |
| A199. | 20040147023 | 07/29/2004 | Baker |
| A200. | 20040248299 | 12/09/2004 | Jayasena |
| A201. | 20050026160 | 02/03/2005 | Allerson |
| A202. | 20060178324 | 08/10/2006 | Hadwiger |
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| | _A203. | 20020128466 | 09/12/2002 | Cole |
|--|---------|-------------|------------|---------------|
| | _ A204. | 20020160379 | 10/31/2002 | Cook |
| | _A205. | 20030036516 | 02/20/2003 | Agrawal |
| <u> </u> | _ A206. | 20030045698 | 03/06/2003 | Manoharan |
| | _A207. | 20030096770 | 05/22/2003 | Krotz |
| | _ A208. | 20030135033 | 07/17/2003 | Klippel-Giese |
| , | _ A209. | 20030190626 | 10/09/2003 | Ravikumar |
| | _ A210. | 20040009938 | 01/15/2004 | Manoharan |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | _ A211. | 20040014108 | 01/22/2004 | Eldrup |
| | _ A212. | 20040014957 | 01/22/2004 | Eldrup |
| | _ A213. | 20040043948 | 03/04/2004 | Baker |
| | _ A214. | 20040053875 | 03/18/2004 | Kruetzer |
| | _ A215. | 20040054155 | 03/18/2004 | Woolf |
| | _ A216. | 20040072779 | 04/15/2004 | Kruetzer |
| · · · · · · · · · · · · · · · · · · · | _ A217. | 20040102408 | 05/27/2004 | Kruetzer |
| | _ A218. | 20040167090 | 08/26/2004 | Monaharan |
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Devin Leake

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| A219. | 20050020521 | 01/27/2005 | Rana |
|-------|-------------|------------|-----------|
| A220. | 20050130181 | 06/16/2005 | McSwiggen |
| A221. | 20040058886 | 03/25/2004 | Scaringe |
| A222. | 20050255487 | 11/17/2005 | Khorova |
| A223. | 20040204420 | 10/14/2004 | Rana |
| A224. | 20030206887 | 11/06/2003 | Morrissey |
| A225. | 20060127891 | 06/15/2006 | McSwiggen |
| A226. | 20050181385 | 08/18/2005 | Linsley |
| A227. | 20050059044 | 03/17/2005 | Graham |
| A228. | 20060115461 | 06/01/2006 | Robertson |
| A229. | 20060110829 | 05/25/2006 | Robertson |
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| A231. | 20060110766 | 05/25/2006 | Robertson |
| A232. | 20050223427 | 10/06/2005 | Leake |
| A233. | 20060223777 | 10/05/2006 | Vermeulen |
| A234. | 20070167384 | 07/19/2007 | Leake |
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|--|--|--|---|
| A235. | 20070173476 | 07/26/2007 | Leake |
| A236. | 20070269889 | 11/22/2007 | Leake |
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Applicant:

Devin Leake

Serial No.: 10/551,350 Filing Date: October 19, 2006 Att'y Docket No.: 16542.16.1a.3 Group: 1635

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For:

Modified Polynucleotides for Use in RNA Interference

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For:

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| VIA eFILE Form PTO-1449 | | Sheet 22 of 31 |
| Applicant: | Devin Leake | Sheet 22 of 31 |
| Serial No.: | 10/551,350 | Att'y Docket No.: 16542.16.1a.3 |
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Group: 1635

Confirmation No.:

3238

For:

Modified Polynucleotides for Use in RNA Interference

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| Attached) A368. Office Action dated 06/28/06 cited in Application No. 11/019,831 (Copy Attached) A369. Office Action dated 02/09/07 cited in Application No. 11/019,831 (Copy Attached) A370. Office Action dated 10/30/07 cited in Application No. 11/019,831 (Copy Attached) A371. Office Action dated 09/04/08 cited in Application No. 11/019,831 (Copy Attached) A372. Office Action dated 09/12/08 cited in Application No. 11390,829 (Copy Attached) A373. Office Action dated 02/22/08 cited in Application No. 11/051,195 (Copy Attached) A374. Office Action dated 12/18/08 cited in Application No. 11/051,195 (Copy Attached) | A366. | | dated | 08/23/05 | cited | in | Application | No. | 11/019,831 | (Copy |
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| | A374. | | dated | 12/18/08 | cited | in | Application | No. | 11/051,195 | (Copy |
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet 30 of 31

Applicant: Serial No.:

Devin Leake

10/551,350

Filing Date:

October 19, 2006

Att'y Docket No.: 16542.16.1a.3 Group: 1635

Confirmation No.:

3238

For:

Modified Polynucleotides for Use in RNA Interference

| · | A375. | Office Action Attached) | dated | 12/31/08 | cited | in . | Application | No. | 11/619,993 | (Сору |
|---|--------|----------------------------|-------|----------|-------|------|-------------|------|--------------|-------|
| | A376. | Office Action Attached) | dated | 01/14/05 | cited | in | Application | No. | 10/406,908 | (Copy |
| | A377. | Office Action Attached) | dated | 04/05/05 | cited | in | Application | No. | 10/406,908 | (Copy |
| | A378. | Office Action Attached) | dated | 09/23/05 | cited | in | Application | No. | . 10/406,908 | (Copy |
| | A379. | Office Action Attached) | dated | 01/27/05 | cited | in | Application | No. | . 10/613,077 | (Сору |
| | _A380. | Office Action Attached) | dated | 04/12/05 | cited | in | Application | n No | . 10/613,077 | (Copy |
| | _A381. | Office Action Attached) | dated | 09/07/05 | cited | in | Application | ı No | . 10/613,077 | (Copy |

Examiner:

/Amy Bowman/

Date Considered:

06/21/2010

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Sheet 31 of 31

Group: 1635

Att'y Docket No.: 16542.16.1a.3

Applicant:

Devin Leake

Serial No.: Filing Date:

10/551,350 October 19, 2006

Confirmation No.:

3238

For:

Modified Polynucleotides for Use in RNA Interference

References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

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